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Plankton of the Bermuda Oceanographic Expeditions.

III. Notes on Polychaeta¹.

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This is one of a number of papers dealing with the planktonic contents of a selected series of nets drawn at various levels off the coast of Bermuda on the Bermuda Oceanographic Expeditions of the New York Zoological Society under the direction of Dr. William Beebe. Full details of the nets, locality, etc., will be found in ZOOLOGICA, Volume XIII, Numbers 1, 2 and 3, and Volume XXI, Numbers 3 and 4.

The identifications in the following list were made from specimens submitted to me by G. H. Wailes.

Certain members of Syllidae and Nereidae have pelagic swarming forms, which accounts for their capture in the plankton. This is also true of the members of the family Opheliidae included in the following list. The members of the genera *Lopadorhynchus*, *Vanadis*, *Alciopa*, *Corynocephalus*, *Travisiopsis*, and *Tomopteris* are true pelagic forms. The genus *Nectochaeta* is bathypelagic.

All the species here enumerated are generally distributed in the Atlantic ocean.

PHYLUM ANNELIDA.

Class Chaetopoda.

Order Polychaeta.

Family Phyllodocidae Grube.

Lopadorhynchus Grube.

L. nationalis Reibisch.

L. uncinatus Fauvel.

Family Alciopidae Ehlers.

Vanadis Claparède.

V. longissima (?) (Levinsen).

V. formosa Claparède.

Alciopa Audouin et M. Edwards.

A. cantraini (Della Chiaje).

Corynocephalus Levinsen.

C. albo-maculatus Levinsen.

Family Typhloscolecidae Uljanin.

Travisiopsis Levinsen.

T. lobifera Levinsen.

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Family Tomopteridae Grube.

Tomopteris Eschscholtz.*T. apsteini* Rosa.*T. nissenii* Rosa.

Family Opheliidae Grube.

Polyophthalmus Quatrefages.✓*P. pictus* (Dujardin).*Armandia* Filippi.✓*A. polyophthalmia* Kükenthal.

Family Leodicidae Treadwell.

Nematonereis Schmarda.✓*N. unicornis* (?) (Grube). A very small incomplete specimen.

Family Syllidae Grube.

Grubea Quatrefages.✓*G. clavata* Claparède.

Family Polynoidae.

Nectochaeta Marenzeller.✓*N. caroli* Fauvel.

From a portion of the material the following additional species were identified by C. C. A. Monro (British Museum).

Family Nereidae Quatrefages.

Nereis Cuvier.✓*N. riisei* Grube. Surface (Net 900).*Ceratonereis* Kinberg.✓*C. mirabilis* Kinberg. Surface (Net 900, September to November).*Perinereis* Kinberg.✓*P. bairdii* Webster. Surface (September to November).*P. sp.* Surface (Net 900).

Family Glyceridae Grube.

Glycera Savigny.✓*G. tessellata* Grube. Surface.

Family Polynoidae Kinberg.

Nectochaeta Marenzeller.✓*N. grimaldii* Marenzeller. 1,000 fathoms and up.*Harmothoe* Kinberg.×*H. benthophila* Ehlers. 1,000 fathoms and up.

Family Spionidae Sars.

Chaetosphaera Haecker.*C. sp.* Haecker. September to October. Surface (Net 1370). Post-larvae.

Mr. Monro writes that all the forms in the above list identified by him are epitocons, sexually modified forms, except the polynoids *Nectochaeta grimaldii* and *Harmothoe benthophila*, which probably represent a phase in the life of some well known benthic species. *Chaetosphaera* is a post-larva of which the adult is not known.

SELECTED LITERATURE.

- Apstein, C., Die Alciopiden und Tomopteriden der Plankton-Expedition. (Kiel). 1900.
- Reibisch, J., Die Pelagischen Phyllocliden und Typhloscoleciden der Plankton-Expedition, Vol. 2. (Kiel). 1895.
- Fauvel, P., Faune de France, Vol. 5 (Polychètes errantes), 1923, and Vol. 16 (Polychètes sédentaires), 1927.